ORIGINAL



BEFORE THE ARIZONA CORPORATION

_	1	DEFORE II	E AUZONA COR	IONAIN		
2	KR	STIN K. MAYES RECEIVED Chairman				
3	GA	ARY PIERCE Commissioner	2010 MAY -3 A 11: 48			
5		AUL NEWMAN Commissioner	AZ CORP CONTIG	SOL Colombia		
6 7	SA	ANDRA D. KENNEDY Commissioner	•			
8	B	OB STUMP Commissioner		Arizona Corporation Commission DOCKETED		
	1	N THE MATTER OF THE	APPLICATION	MAY - 3 2010		
1	1. C	OF ARIZONA-AMERICAN COMPANY, AN ARIZONA CORPORATION, FOR A		DOCKETED BY		
	2 I	DETERMINATION OF TH FAIR VALUE OF ITS UTII	LITY PLANT	DOCKET NO. W-01303A-09-0343		
	14 ∭ !	AND PROPERTY AND FO IN ITS RATES AND CHAI THEREON FOR UTILITY	RGES BASED SERVICE BY ITS			
		ANTHEM WATER DISTR SUN CITY WATER DISTI				
	- 11	IN THE MATTER OF THE OF ARIZONA-AMERICA	N WATER			
	17 18	COMPANY, AN ARIZON CORPORATION, FOR A DETERMINATION OF TI	•			
	19	FAIR VALUE OF ITS UT AND PROPERTY AND F	ILITY PLANT OR INCREASES	DOCKET NO. SW-01303A-09-0343		
	20	IN ITS RATES AND CHA THEREON FOR UTILITY ANTHEM/AGUA FRIA V	SERVICE BY ITS			
	21	DISTRICT, ITS SUN CIT DISTRICT AND ITS SUN	Y WASTEWATER I CITY WEST	<u>\$</u>		
	22 23	WASTEWATER DISTRI	Cr	_]		
•	24	*# <u>*</u>	CONSOLIDATIO	ON & RATE IMPACT		
	25		W.R.	HANSEN		
	26			Intervener ay 3,2010		
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EXECUTIVE SUMMARY

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impact of statewide & select...consolidation of the Campany's water districts and to propose combinations of districts where potential benefits outweights the limitations of consolidation efforts, and an analysis of rates and operations under a statweide consolidation of the Company's water districts." 10 This edict has triggered a plethora of exhaustive research on her 11 mandate, which, in this writer's view, does absolutely nothing to 12 enhance the radical direction in which consolidation would direct us. 13 It only reaffirms and substantiates some very fundamental and 14 adverse conclusions; (1) it plainly assists some districts in short 15 term strained circumstances at the expense of hurting others. This 16 was very clearly substantiated in Decision # 71410 when Arizona/ 17 American executive Broderick, on page 48 of that decision states, "... he experimented with residential rate designs, but it did not change 18 his conclusions that in order to achieve a total rate consolidation, the rates in Sun City & Mohave would increase significantly, (136% & 37.22%) and that the major short term beneficiaries would be Anthem 21 water(-47.74%) and Tubac(-47.13%) and Havasu (-42.90%) with the only 22 largely unaffected area being Paradise Valley." [emphasis added] 23 In that study, only one party supported the consolidation, the re-24 resentative from Tubac, which district gained a 47.13 reduction vs. 25 an increased rate. 26 (2) the increase level of service is not guaranteed except where the

invested capital of one community is confiscated in order to enhance

As per the charge of A.C.C. Chair Mayes, in a letter filed on 4/12/

08, in conjunction with Decision # 71410, wherein she asked partici-

pants in that case to, "...make an analysis addressing the _predicted

1 the service level of another district. Meanwhile, the benefactor district enjoys no gain in service level but is inflicted with a 3 higher rate which is extracted for the sole purpose of benefiting 4 another district. This takes on all the appearances of a collaborativ 5 utility rate payer welfare system. (3) It incentivizes any inefficient or capital-troubled district to to seek to join an existing consolidated amalgamation of water districts for the purpose of transferring, and subsequently lessening 9 the burden of its rate payers while imposing an economic burden on 10 members of the consolidated group. Should consolidation be adopted, 11 it will precipitate a gravitation flow in this bail-out direction. (4) It likewise incentivizes corporate bodies to troll for such disadvanted districts, as described in # 3 above, recognizing that a utility commission that has initially embraced the rate payer welfare system will subsequently welcome any troubled sojourner. (5) The war-cry for consolidation is usually resonnated from the 17 electric & gas utility camps where "interconnection" is more plaus-18 ible and economically rational. Water district are traditionally 19 independent. To pursue interconnection, as a service benefit, with-20 in Arizona American could easily approximate over 892 miles of new 21 heavy piping making it an astronomical economic implausibility. 22 (6) As one reviews the Water Infrastructure Finance Authority of 23 Arizona's 2008 survey of the states 426 water districts and 133 24 wastewater districts, you can quickly focus on the extreme lack of 25 homogeneous characteristics among all these districts. They attempt 26 to categorize them into 32 types of structure and physical characteristics with additional quantification. But one can easily compre-18 hend the diversity of districts by reflecting upon the vast range

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of rates among water dsitricts, running from $4.64 monthly way up
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   to $201.78 monthly. Among wastewater districts, they range from
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   $2.00 to a high of $80. monthly. This wide range of rates capitalizes
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   the obvious diversity of physical charactertics, needs and other
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   factors which drive the composition of a rate, proving once more
   that consolidation is both implausible for water utilities, if not
   detrimental.
   (7) Finally, one could contend that consolidation would constitute
   "discrimination" against a district adversely impacted in order to
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   benefit another district, which is contrary to the Arizona State
   Constitution: Article 15, Section 12, which reads;
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   "All charges made for services rendered, or to be rendered, by public
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   service corporations within this state shall be just and reasonable,
   and no discrimination in charges, service, or facilities shall be
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   made between persons or places for rendering a like and contempor-
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   aneous service, except that the granting of free or reduced tranpor-
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   tion may be authorized by law, or by the corporation commission, to
   classess of persons described in the act of Congress approved
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   February 11,1887, entitled An Act To Regulate Commerce, and the
   amendments thereto, as those to whom free or reduced rate transport-
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   ation may be granted." This bears study and will most assuredly
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    will be pursued.
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   Consolidation is fraught with so many adverse aspects in the water
   utility field that it does not deserves adoption. It is a highly
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   controversial issue which will precipitate social unrest needlessly.
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I. <u>INTRODUCTION AND QUALIFICATIONS</u>

Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND TELEPHONE NUMBER.

My Name is W.R. Hansen. MY residential address is 12302 Swallow Dr., Sun City West, Arizona 85375, and my phone number 623-556-9873.

- Q. WHAT IS YOUR CURRENT STATUS?

 I am a retired individual.
- Q. PLEASE DESCRIBE YOUR VOCATIONAL EXPERIENCE & EDUCATION.

I have a Bachelor Degree in Education with a Minor in Business Administration with some additional post graduate education. For 26 years I was a business co-owner with my brother, 15 years in Trade Association management. During my business career, I also spent 12 years in the Iowa STATE Legislature. Following my association work, I spent 6 years on an appointive state commission, serving half of that time as Chairman of the Commission.

- Q. HAVE YOU TESTIFIED BEFORE THIS COMMISSION?

 Yes, but it was at a Public Hearing they held in Sun City West.

 However, I was deeply involved in the Rate Hearing last fall & attended some of the formal hearings last March but did not testify. I also testified in April of 2010.
- Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS CASE?
 - I wish to offer Direct Testimony on Consolidation and its impact on rates on a unified basis as contrasted with the rebuttal testimony I filed on ApRil 7,2010.
- Q. WHAT BACKGROUND DO YOU HAVE IN A WATER UTILITY CASE?

 Beginning in the fall of 2008 through 2009, I spent over 4 month as a member of the Sun City West Homeowners Association(P.O.R.A. Water Rate Committee studying & preparing testimony for W-01303A 08-0227 & SW 01303A-08-0227, where we met weekly for over 4 mont As stated above, I participated in a Commission Hearing in Sun City West, and attended some of the hearings last March but did not testify. I did testify in the hearings this April of 2010.

Q 1WHAT VIEWPOINT DO YOU WISH TO EXPRESS AT THIS TIME? ON THIS PROPOSED CHANGE IN POLICY?

I deem it a policy issue inasmuch as it defies the traditional process in the calculation of rates predicated on the individual districts invested capital in its singularly functioning system as well as the revenues and expenses associated with the unique characterizations of that district.

Q 2 DO YOU THINK "CONSOLIDATION" IS THE APPROPRIATE NAME FOR THIS ISSUE?

No, I do not-in fact I would have characterized it as a classic misnomer. Others have previously spoken of it in various terms, classifying it an "Equalizer," Levelizer," or rate payer welfare. In essence, it is a scheme to redistribute burdens predicated on the confiscation of the prudently invested and functioning districts to prop up the under-invested districts who-whether by a variety of circumstances- find themselves in an adverse fiscal position in terms of capital needs or operational excesses for their size.

Q 3 WHAT COMPARABLE GAINS MIGHT ONE ANTICIPATE IN THE LEVELIZATION OF THE RATE STRUCTURE?

Virtually none! Conceivably at the Commission level, it may be able to eliminate an Administrative Judge and some attendant personnel by virtue of fewer rate cases and perhaps a miniscule reduction at the company level but that would be less likely. Conversely, establishing a while new system and covering a massivk layer of districts simultaneously could trigger increased costs. It could reduce the time spent by Commissioners but whether you would ever reduce their compensation is problematic. total, any cost reduction of staff collectively, in a monopolistic style of business, would more likely result in a trickle and is unlikely to ever be seen by the rate payor. Potentially, while it could appear to be time-savings for the A.C.C., the greater depth and complexity of the case could offset it. Significant wind-falls would be experienced by 3 districts, i.e. Anthem, Havasu& Tubac but some would suffer and one particularly-Sun City.

Q 4 CAN YOU BE MORE SPECIFIC ?

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Yes, Tubac & Anthem in cases pending could experience a doubling of their current rates, as was asserted by staff at the 2/10/10 Rate Consolidation Seminar whereas according to Exhibit B from Rate Case # W-01303A-08-0227 on page 47 & 48 $\,$ of Docket # 71410 under so-called "consolidation" would be gifted with reductions of 47.74% for Anthem & 47.13% for Tubac while Sun City would be saddled with a 136% increase. observation is similar to what Broderick expressed on lines 19of the same document, and on p. 49, lines 1-8. Also, on lines 9-14 of page 49, PORA suggests their opposition to consolidation and suggests that together with Sun City, they be left out of the consolidation format. RUCO expresses its oppostion because not all districts were considered, in line 15-20 on p. 49.3 While staff supports it in concept, not in the instant case and acknowledged on p. 50 with Company Counsel that at least 10 deficiencies exist prior to rate consideration. $_4$ Only one party recommended consolidation, Magruder of Tubac.5

Q 5 WHAT HAS PROMPTED THE INTEREST IN THIS APPROACH ? It is a hangover from the last rate case that concluded on November 12,2009. It is likely prompted by, and I can only speculate, that it may have fermented into consideration in that it is used sometimes with gas and electric utilities.

Q 6 WOULD THAT NOT SUPPORT ITS CONSIDERATION.

Absolutely not for gas and electric utilities are interconnects in those cases, utilizing common production facilities whereas water utilities in the instant case are not in that type operat They have their own invested facilities, unique to ional mode. their district and their own unique costs and revenues. some common labor and management has been allocated in accordance with accepted accounting practices, production and distribution in most instances remain separated. Some utility districts, such as Sun City West, have been combating the arsenic problem and our rate payors have absorbed the capital and operational cost. Next door is Sun City & it does not have arse

(1) Staff @ Rate Consolidation Conference on 2/10/10

(2) Docket 71410, Schedule B, p 48 Broderick 1. 19-25 on p.48, 1-8 of (3) Ibid 2, p. 49, lines , PORA lines 9-14, RUCO 15-20

(4) Ibid 2, p. 50, lines 1-15

(5) Ibid 2, p. 50, lines 16-19 3

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be cheerleaders for consolidation or levelization of rates since it would deposit their extra burdens on the other districts. Fortunately for Tubac, they received a one million dollar stimulus federal grant, something unknown to Sun City West as we started shouldering the arsenic costs a few years ago on the backs of our local rate payors. Q 7 WHAT OTHER ASPECTS MAKE LEVELIZATION DIFFICULT AMONG WATER

UTILITIES IN TERMS OF EQUITABLY RESPECTING DISTRICT'S UNIQUE DIFFERENCES ?

Now we learn that Tubac has arsenic, while Anthem is facing fiscal problems so I can imagine that both would

It does give one pause when suddenly a trade association of 100 investor utilities (some as large as 400,000 meters) signs up as an Intervener in a case devoted to 5 small utility districts, other than to pursue their goal of statewide water utility rate consolidation.

The main problem with water utility districts in Arizona is the lack of homogeneous grouping for a singular rate setting. The Water Infrastructure Finance Authority of Arizona illustrates this fact in their latest survey of 2008," WATER & WASTEWATER RESIDENTIAL RATE SURVEY for the state of ARIZONA." 6 On p. 9 they declare there are 426 entries for drinking water districts, varying in rates from@\$4.64 month charge for Phoenix to \$201.78 monthly charge for Highland Pines. There are 133 waste water districts with monthly rates that vary from \$2.00 in Tolleson to \$80.00 in Kings Ranch. 7

The characteristic differences among water district is best illustrated by their 3 major groupings; #1 Pricing of charges with 7 subdivisions/8#2 Cost factors used for rates with 11 subdivisions/9# 3 Types of Ownership with 4 subdivisions.10.

Thus with 3 major divisions, you add 22 subdivisions, ending up with 25 different ways to characterize a district.

- (6) Cover page of Water & Wastewater Survey
- (7) Ibid # 6,p. 9 Cost variances of districts
- (8) Ibid # 6,p. 5 & 6, Pricing systems (9) Ibid # 6,p. 6 & 7, Cost factors for calculating rate
- (10) Ibid #6,p. 9, Types of Ownership

Q 8 ARE THERE OTHER CHARACTERISTIC DIFFERENCES?

I'm sure there are more but I'll just mention 2 other differences in water districts that have major implications. Sun City & Sun City West are built-out communities, that is there is no potential for additional customers and as a result its system is somewhat more static than those in expansive areas. Also, costs & revenue tend to be quite static. Additionally, the age of a system can make a significant difference in capital demands. From the attached memo, you can see the age of systems range from 25 years old to 64 years old, a span of age difference of 39 years. 11 That factor alone has huge expenditure implications.

Q. DO YOU AGREE WITH STAFF CONSOLIDATION PROPOSALS FOR SUN CITY & SUN CITY WEST, AS SET FORTH ON PAGE 22, COMMENCING WITH LINE 9?

Yes, I concur with the rejection of the possible consolidation district by the Staff as shown at the bottom of page 23 commencing with line 21. I would, however, offer additional reasons, though Michlick alludes to the possibility of subsequent testimony of Elijah Abinah.

Q. WHAT INDEPENDENT STATEMENTS WOULD YOU OFFER.

While there is a proximity factor that could be favorable, it is more than outweighted by other factors.

WHAT MIGHT THOSE FACTORS BE?

#1. The age disparity in the two systems. Sun City West is 33 year old, while Sun City is 50 years add resulting in in a deterioration rate that would not be on parallel paths.

In fact, in a 4/15/10 filling by Townsley & Broderick,

Townsley adopts the prior testimony of Christopher C.Buls,

stating, "Sun City has the oldest infrastructure of any of

the company's, and the infrastructure is at the point in in the

asset cycle where significant capital will begin to be invested.

(11) Memo from Bradley Cole of 1/22/09

(12) Remarks of Christopher Buls

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O. ARE THERE OTHER FACTORS?

Yes, a 2nd. would be a differential in system styles which could impact rates. Sun City contracts out at least a portion of its wastewater treatment to another entity, whereas in Sun City West we have a complete treatment of all wastewater.

Q. ANY OTHER FACTORS?

Yes, a differential in special conditions. SCW has arsenic and as a result it has made.....and continue to make, a substantial commitment to accommodate this problem. On the other hand, Sun City does not have arsenic.

Thus, the initial logic of pairing these two cities because of proximity pales in light of greater disparities. Beyond that, in my initial discussion of the subject I think I have set forth a bevy of rational objections to the so-called-"consolidation."

Q. Do the more recent consolidation configuration improve over last year.

When you rank the relative position, from lowest rate to highest and then follow the change of their position under I., II., or II. and you pay particular attention to the problem districts, anthem, Tubac and Mohave, as one tends to improve, the other worsens. Likewise, the advantaged rate districts now would play a disproportionate burden to improve the high rate districts. Any way you slice it, it becomes "Rate payer Welfare.

Q Does this conclude your testimony for now.

A YES

EXHIBITS

DOCKET NO. W-01303A-08-0227 ET AL.

assumptions and decision points that must be considered.²²⁶ Mr. Broderick attached the results of one consolidation scenario to his prefiled rebuttal testimony. That scenario is attached to this Decision and incorporated herein as Exhibit B. Exhibit B includes all eight of the Company's water districts at the Company's requested revenues in the original application filed in this case, and at the present rates for the Sun City Water district. Exhibit B shows the typical 5/8 x 3/4 inch meter residential customer bill on a pre- and post- consolidation basis for each of the water districts, with a consolidated monthly basic service charge of \$15.59 and three tier commodity rates of \$1.50, \$2.50 and \$3.25. That scenario would result in the following total residential revenue and percentage shifts (in total changes net to zero) by district. 227

District/Revenue shift	Rate increase/(decrease)	
Anthem	(\$4.6 million)	(47.74 %)
Tuþac	(\$0.3 million)	(47.13 %)
Havasu	(\$0.6 million)	(42.90 %)
Agua Fria	(\$3.5 million)	(17.75 %)
Sun City West	(\$1.3 millioh)	(15.69 %)
Paradise Valley	\$0.3 million	2.95 %
Mohave	\$1.7 million	37.22 %
Sun City	\$8.4 million	136.00 %

Mr. Broderick stated that he experimented with the residential rate designs, but it did not change his conclusion that in order to achieve a total residential rate consolidation, the rates in the Sun City Water and Mohave Water districts would increase significantly, and that the major short term beneficiaries would be Anthem Water, Tubac Water, and Havasu Water districts, with the only largely unaffected water district being Paradise Valley Water. 228 The Company's witness Mr. Townsley further addressed the difficulties and benefits of rate consolidation, and laid out a specific partial rate consolidation proposal that involves the levelizing of net plant investment per customer

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²²⁶ Id. at 5-6.

 $[\]frac{10.}{1}$ Id. at 7. 28

²²⁸ Id.

EXHIBIT 3 PORA L. 9-14

EXHIBIT 3 RUCO L 15-20

EXHIBIT 4 STAFF L.21-29 CKET NO. W-01303A-08-0227 ET AL.

+ p. 50 L. 1-15

by means of a systems benefit charge to be assessed on the variable usage rate per gallon.²²⁹

Based on its analysis, the Company believes that with the magnitude of revenue shift that would be required, its customers are not yet ready for an eight district consolidation. The Company contends that ordering rate consolidation in this proceeding would be impractical, and could lead to unintended consequences, because at this time, there are more questions than answers, and to get the answers, data must be gathered, informed public input must be received, and difficult policy choices must be made. The Company believes that a subsequent parallel proceeding is needed to provide a forum for all parties, the public and the Commission to consider consolidation. ²³¹

PORA states that it is unprepared to consider consolidation of rates.²³² PORA agrees with Staff that rate consolidation is a complex issue with both public and policy implications, that public outreach should be undertaken prior to consolidation, and that adequate notice of consolidation should be given to all affected ratepayers.²³³ PORA believes that Sun City West Water and Sun City Water districts have unique attributes which should entitle them to an option to not participate in rate consolidation if and when consolidation is implemented.²³⁴

RUCO states that it opposes consolidation of rates in this proceeding because only seven of the Company's thirteen water and wastewater districts are being considered in this proceeding, and because consolidation in this case would result in the inequitable spread of costs over some, but not all, of the Company's water districts.²³⁵ RUCO contends that while there may be good reasons for rate consolidation, the reasons should be thoroughly vetted on the record and then applied evenly to all the districts.²³⁶

Staff states that it supports rate consolidation, but urges the Commission to proceed with caution, and does not recommend consolidation in the instant case. Staff states that rate consolidation is a complex issue that has both public and policy ramifications which require careful

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²²⁹ Id. at 11-18.

 $[\]frac{230}{331}$ /d. at 8.

²⁵¹ Company Brief at 52,

²³² PORA Brief at 4.

^{26 253} Id.

²³⁴ Id.

²⁷ RUCO Reply Brief at 8-9.

^{28 237} Staff Br

²³⁷ Staff Brief at 20.

EXHIBIT 4 STAFF L. 1-15 EXHIBIT 5 MAGRUDER L 16-

DOCKET NO. W-01303A-08-0227 ET AL.

consideration in order to avoid any unintended consequences.²³⁸ Staff is also concerned that the notice in this case was not adequate to notify affected ratepayers if consolidation were to be accomplished in this proceeding.²³⁹

Staff's witness Mr. Abinah agreed with the Company's counsel that several issues need to be addressed prior to rate consolidation, including:

- How to deal with different numbers of tiers and breakover points across districts;
- How to account for differing uses of water for residential irrigation across districts;
- Whether commercial rates should be consolidated at the same time as residential;
- How cost of service and returns by customer class should be affected;
- How public input can be maximized;
- How customers can be educated about the pros and cons of rate consolidation;
- How parties will participate in the public process;
- Whether to phase in or immediately implement consolidated rate structures;
- · Whether wastewater rates should also be consolidated; and
- What economies of scale would be accomplished by consolidation.²⁴⁰

Only one party is recommending rate consolidation in this proceeding. Mr. Magruder recommends that consolidated rates be implemented in the water districts at this time, and that in the next Arizona-American rate case all other water districts be integrated into the consolidated rate structure.²⁴¹

Staff states that if the Commission wishes to consider rate consolidation, this docket may be left open for the sole purpose of rate design for consolidation purposes, with the possibility of a consolidation of this docket with a future docket for the purpose of considering consolidating rates of Arizona-American's water districts. RUCO states, however, that it would not support reopening this docket or the Company's next rate case docket for the purpose of applying a new rate design to

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²⁷ Z40 Tr. at 892-97

Magruder Brief at 27; see also Magruder Reply Brief at 19-27.

Staff Reply Brief at 5.

Water Infrastructure Finance Authority of Arizona



2008

ater and Wastewat

Water and Wastewater

Residential Rate Survey for the State of Arizona

Water Infrastructure Finance Authority of Arizona 1110 West Washington, Suite 290

Phoenix, Arizona 85007 Telephone: 602.364.1310

Toll Free: 877.298.0425

Website: www.azwifa.gov

Report Summary

INTRODUCTION

provided data was utilized. systems. This survey provides data on the unit rates and total monthly charges assessed by utilities throughout Arizona for water consumed and/or The Water Infrastructure Finance Authority of Arizona is pleased to provide this 2008 Residential Rate Survey for drinking water and wastewater wastewater generated. The 2008 survey presents data as of January 1, 2009; where information as of this date was not available, the most recent

there any inclusion of sales taxes, sanitation charges, or other fees and surcharges that are sometimes included on a residential monthly water bill. with the provision of water and wastewater service, such as connection charges, tap fees, impact fees, stand-by charges, late charges, etc. Nor is This survey is limited only to the monthly base and usage charges assessed by Arizona utilities. No data was collected on other charges involved

ARIZONA RATE STRUCTURES

utility can have a significant impact on a customer's usage patterns and monthly bill for service. As noted in the American Water Works Association Manual M-1, an authoritative source for ratemaking throughout the United States, the most common types of rate structures include, but are not There are many different rate structures for water and wastewater systems currently in effect in Arizona. The type of rate structure employed by a

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Uniform Volume Charges - a single charge per unit of volume for all water used.

of water delivery than the preceding block is charged at a lower unit rate than in the previous blocks. Generally, each successive block rate is applicable to a greater volume Declining Block Rates - a schedule of rates applicable to blocks of increasing usage in which the usage in each succeeding block



financial disincentive to consumers for increasing amounts of water use volume of water delivery than the preceding block. The intent of an increasing block rate is to encourage conservation by providing a is charged at a higher unit rate than in the previous blocks. Generally, each successive block rate may be applicable to a greater Increasing Block Rates - a schedule of rates applicable to blocks of increasing usage in which the usage in each succeeding block

social goal of providing minimum water requirements to qualified customers at a below-cost price. Lifeline Rates - rates applicable to usage up to a specified level that are below the cost of service for the purpose of meeting the

Off-Peak Rates - rates charged for usage during designated off-peak periods

system seasonal requirements. facilities generally not needed to meet lower winter loads. These rates are based on the cost of service variations with respect to Seasonal Rates - higher rates that may be charged during the summer months when a system peak occurs, which requires

regardless of the amount of water consumed or wastewater discharged. This charge can also be based several other factors Fixed Monthly Charges - usually applicable to wastewater systems; involves the assessment of a single fixed charge for service including the number of drainage fixtures, rooms, or amount of frontal footage of a property.

ratepayers (Lifeline rates) enforce policy goals, such as conservation (Increasing Block rates), system efficiency (Off-Peak rates), or assistance to needy or low-income example, a utility that charges for service based on Increasing Block rates will likely have a different total charge for a given level of usage than a utility that charges based on uniform rates. In addition to recovering sufficient revenues to fund operations, specific rate designs can be used to The type of rate structure implemented by a utility may have significant economic, social, and policy implications for the affected community. For

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volume, while still others use a fixed monthly charge. allowance at all. On the wastewater side, some utilities charge a volumetric rate based on a "winter average", which sets a maximum usage level at the average of the customer's water usage during the winter months. Other utilities base wastewater charges on a straight percentage of total water provide a large allowance of gallons within the monthly minimum charge, others provide a limited allowance, and still others provide no usage For example, some utilities choose to implement a high fixed charge and a lower volumetric rate, while other utilities do the opposite. Certain utilities Furthermore, there are other factors within the type of rate structure implemented that may also have an impact on a customer's monthly charges.

in significantly different total costs and rates between even neighboring utilities. These variables include, but are not limited to: Many variables effect the determination of a utility's cost of service and the ultimate rate it implements for its consumers. These variables can result

which the water must be extracted? How extensive a treatment process is required to convert the raw water into potable water for Water Source - Is the utility using ground water, surface water, or a combination? If ground water is used, what is the depth from



ARIZONA WATER AND WASTEWATER RESIDENTIAL RATES - 2008

utility had to incur the cost of constructing its own reservoir? end users? Is the utility receiving water as a consequence of a federal project, i.e. dam, that would result in lower rates than if the

- more widely disbursed? Transportation/Distribution - Are the utility's customer base primarily rural or urban? Is the customer base densely populated or
- growth of the past decade? System Age - Is the system older, requiring more repair/replacement expenditures, or newer, installed to service the state's rapid
- wastewater systems? Economies of Scale - Is the system larger and better positioned to take advantage of the economies of scale inherent in water and
- Grant Funding Is the utility eligible for state and federal grants to offset some of the costs of system repair and expansion?
- issuance of tax bonds (financed through property or sales taxes) as opposed to revenue bonds (financed through user rates)? Use of Tax Bonds – Is the system able to, and does it choose to, finance a percentage of capital expenditures through the
- General Fund Subsidies (particularly applicable to municipal utilities) Are the utility's rates being used to offset a portion of the General Fund through contributions? To the contrary, are the utility's rates not covering its cost of service, thus requiring a subsidy from the General Fund in order to meet all expenses?
- Return on Investment (particularly applicable to private sector utilities) What is the utility's allowed rate of return on investment?

operation. Therefore, the results of this survey alone should not be used to judge the effectiveness of the operation of any specific utility. Instead, this survey will be useful by providing general comparisons between systems and communities. Because of these fundamental cost differences between utilities, a high rate or a low rate does not necessarily reflect the efficiency of the utility's

SURVEY METHODOLOGY AND KEY FINDINGS

continue to explore new methods for distribution and collection of data submissions were via mail, fax or email. Ease of accessibility is a key contributing factor to the success of a survey such as this, and WIFA will utilities. As a result, 49 water utilities submitted 92 water surveys and 23 wastewater utilities submitted 28 wastewater surveys online. All other was very successful for its first year in operation. The online survey appeared to be especially helpful for the companies representing multiple SurveyMonkey, which is an online surveying tool started in 1999 that assists companies and individuals with surveying needs. The online version This is the first year the survey was available via the internet along with the traditional mail, fax and email versions. The survey was offered through



WATER INFRASTRUCTURE FINANCE AUTHORITY OF ARIZONA

ARIZONA WATER AND WASTEWATER RESIDENTIAL RATES - 2008

Improvement District. The average monthly charge for 7,500 gallons of water service was \$35.03, up 2.97% from the 2007 survey, and the median A total of 426 database entries for drinking water systems in Arizona are presented in this survey. (Some utilities have more than one entry due to seasonal rates or multiple geographic areas.) According to the data collected for these systems, the monthly water charges for 7,500 gallons of water consumption ranged from \$4.64 of the seasonal summer rates for the City of Phoenix, to \$201.78 for the Highland Pines Drinking Water monthly charge was \$32.59, an increase of 5.20% over the 2007 survey rates.

the monthly wastewater charges for 5,000 gallons of wastewater ranged from a low of \$2.00 for the City of Tolleson to a high of \$80.00 for the Kings Ranch Unit II Treatment Plant. The average monthly charge for 5,000 gallons of wastewater service was up 7.45% from the 2007 survey to \$26.08, A total of 133 database entries for wastewater systems in Arizona are presented in this survey. According to the data collected for these systems, and the median monthly charge was \$23.00, an increase of 8.18% from the 2007 survey data.

This Report Summary overview section includes a number of tables and graphs that provide a statistical summary for both the Drinking Water Surve((Exhibits A-G) and the Wastewater Survey(Exhibit H & I)) Both median and average data are provided by:

- Statewide Total
- Ownership Type
- Annual Revenues
- Number of Connections
- County Served

Data is also presented by Ownership Type for the various rate structuring methods used for Drinking Water Systems.

FOOTNOTE # 11



Print Message | Close

From : Joni.McGlothlin@arnwater.com

To : jobobaz@cox.net

CC Joni.McGlothlin@arnwater.com, c.ullman@juno.com, larry@lwoods.com

Subject : AAW MORE ANSWERS

Date Fri, Jan 16, 2009 05:12 PM

Hi Bob.

Here is the second half of the answers to your questions straight from our director of Operations:

The following is the last piece of information for PORA. The age of our water and wastewater systems are as follows.

Tubac Water - 1958 and newer
Paradise Valley Water - 1946 and newer
Agua Fria Water - 1970 and newer
Sun City West Water - 1978 and newer
Mohave Water (BHC) - 1964 and newer
Mohave Wastewater - 1985 and newer
Havasu Water - 1970 and newer

Bradley J. Cole

Director of Operations, Central Arizona Arizona American Water 15626 N. Del Webb Blvd. Sun City, AZ 85351-1602

Testimony Summary for Paul G. Townsley: Page 2

Mr. Townsley also will adopt the pre-filed direct testimony of Christopher C. Buls, as follows:

Arizona-American supports the implementation of an infrastructure improvement surcharge in the Sun City Water District and a pro forma adjustment for certain assurance fees related to transferring the Anthem water lease from Del Webb to Arizona-American Water Company.

Sun City Water has the oldest infrastructure of any of the Company's, and the infrastructure is at point in the asset life cycle where significant levels of replacement capital will begin to be invested. The qualifying assets would be limited to replacements of existing assets, including replacement mains, hydrants, meters (including AMR replacements), services, tanks and booster stations.